

ABSTRACT OF DISCLOSURE

A method of eliminating home-in noise of an optical disc drive without a home limit switch and using a variable step counter, includes: resetting the variable step counter, which counts steps of a stepping motor of an optical pickup, to zero regardless of a position of the optical pickup, when power is applied to the optical disc drive; driving a servomechanism at the position of the optical pickup and then reading a sub-code value of the optical disc to confirm a current position of the optical pickup; calculating a number of tracks from the current position of the optical pickup to a home position and converting the number of tracks into a step counter value to obtain a step counter value of the home position; and moving the optical pickup to the home position through an access operation. The step counter value of the home position is an integer varying depending on the position of the optical pickup when power is applied.